CW#118: Linear Functions in the CP

Geometry

Due: Thursday, May 5th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

Directions: Complete all problems in your notebook!

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| You will be able to find the vertices of a shape in the coordinate plane. | |
| Directions: Graph the functions and determine the vertices of the shape. | |
| 1. What is the area of the region bound by , , and ? | 2. What is the area of the region bound by , , y=10, and x=2? |
| 3. Plot line k, . What is the area bound by line k and the x and y-axis? | 4. What is the area of the region bound by , , and ? |
| 5. What is the area bound by the x & y-axis and the line ? | 6. What is the area bound by the x & y-axis and the line ? |
| Break 1: Lines that are y= any constant, are always…  How are you going to remember that? | Break 2: Explain the process of graphing a line. |
| 7. The area of a rectangle is 80 units2. If the x and y axis make up two of the sides, what are the possible equations for the remaining sides? | 8. A region is bound by the lines ,  , and the x- axis. What is the area of the bounded region? |
| 9. What is the area bound by the lines ,  , and ? | 10. What is the area bound by the lines , and ? |
| Break 3: In the context of these problems, what does the word bound mean? | Break 4: What does it mean when the lines intersect? |

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| You will be able to write the equation for the lines that create a shape in the coordinate plane, given the vertices. | |
| Directions: Plot the points. Write the equation for the line of each side. | |
| 11. The triangle ABC with vertices A(-3,1), B(1,3), and C(2,-4). | 12 The quadrilateral HUIR with vertices H(-5,-2), U(-4,3), I(-2,3), and R(0,-1). |
| 13. The quadrilateral KNDF with vertices K(0,-1), N(-1,-4), D(-3,-2), and F(-2,1). | 14. The triangle ULF with vertices U(-3,0), L(-2,4), and F(-1,1). |
| 15 The rectangle ABCD with vertices at A(-3,0), B(3,2), C(4,-1), and D(-2,-3) | 16. Quadrilateral QBCD has vertices D(5,1), E(2,4), F(-4,4), and G(-1.1). |

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Failure to show work will result in a LaSalle.

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| 1.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 3.04.10 PM.png | 2.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 3.04.10 PM.png |
| 3.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 3.04.10 PM.png | 4.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 3.04.10 PM.png |
| 5.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 3.04.10 PM.png | 6.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 3.04.10 PM.png |
| 7. Solve for r.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 5.13.10 AM.png | 8. Solve for m.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 5.13.10 AM.png |
| 9. Solve for n.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 5.13.10 AM.png | 10. Solve for p.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 5.13.10 AM.png |
| 11. Write the equation of a line that is parallel to and passes through the point, . | 12. Write the equation of a line that is parallel to and passes through the point, |

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| 13. The circumference of the circle 22 ft. Find the area. | 14. Find the circumference of the circle below: | | 15. A car tire has a circumference of 64 inches. What is the diameter of the wheel? What is the radius? |
| 16. Find the area of the circle below: | | 17. What is the circumference of the circle? | |